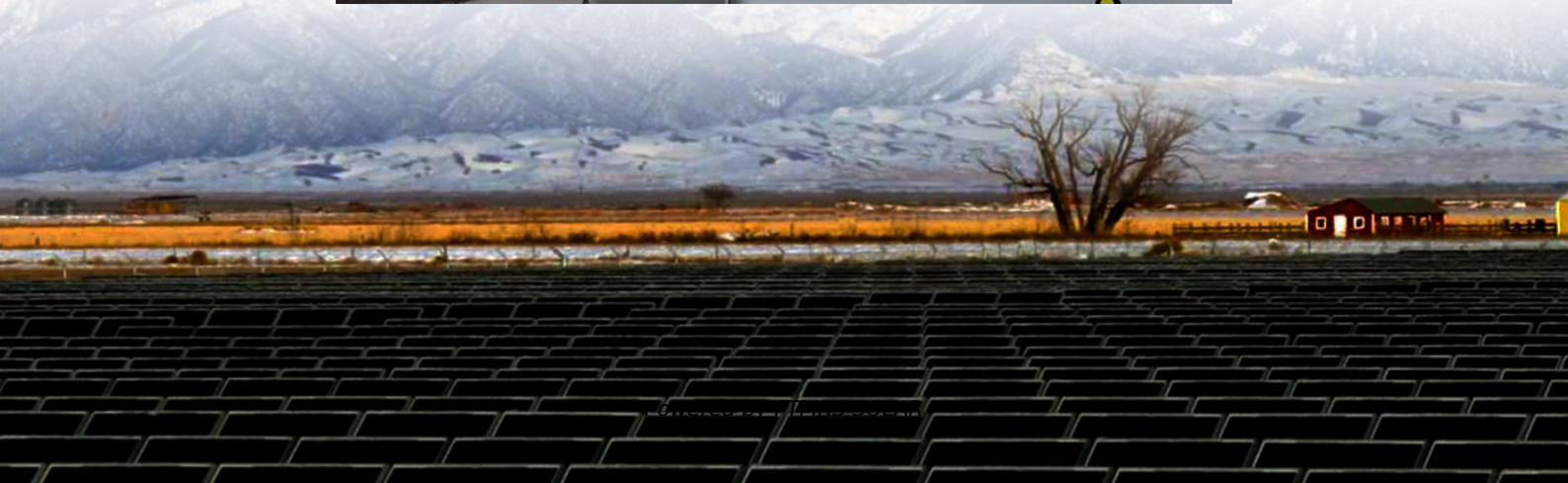


Price of Phase Change solar container energy storage system in Benin





Overview

Is integrating Phase change material in solar thermal technologies sustainable?

To overcome these challenges, integrating phase change material (PCM) in solar thermal technologies makes a sustainable approach to enhance the efficacy, productivity, and utilization rate of solar thermal technologies. In this manuscript, the sustainable approach of integrating PCM in solar thermal technologies was reviewed.

Are phase change materials based storage systems a sustainable and alternative source?

Phase change Materials (PCMs) based storage system as a sustainable and alternative source to enhance the performance of the various solar thermal technologies as shown in Fig. 7. In this section, consolidated global literature on implementing PCM-based thermal solar technologies is explicitly reviewed. Fig. 7.

What is the productivity of solar still based on nano-enhanced PCM?

Solar still with PCM, fins, condenser, and wick material reaches maximum daily productivity of 32.46 %. The cost of production varies from 0.0082 to 0.0095 \$/L. Cumulative effect of reflector, fin, PCM augmented productivity by 51.8 %. Additional increase of 21.5 % will occur when nano-enhanced PCM were added.

Is a life cycle cost analysis possible for solar energy technologies?

But life cycle cost analysis of various solar energy technologies integrated with PCM suggests that the recovery of cost is possible because of high energy savings and an increase in the productivity. Till now studies are limited to only lab scale testing and prototype testing.



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